

STATEMENT OF BASIS (AI No. 156813)

for draft Louisiana Pollutant Discharge Elimination System permit No. **LA0123544** to discharge to waters of the State of Louisiana.

THE APPLICANT IS: Advanced Marine Coatings, Inc.
Advanced Fiberglass Products
Post Office Box 969
Gray, LA 70395

ISSUING OFFICE: Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

PREPARED BY: Lisa Kemp

DATE PREPARED: October 1, 2008

1. PERMIT STATUS

A. Reason For Permit Action:

First time issuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term. A Notice of Intent for coverage under the Light Commercial General Permit (LAG480000) was submitted. However, the Light Commercial General Permit has been stayed due to litigation. Therefore, an individual permit will be issued.

B. LPDES permits –

LPDES permit effective date: N/A

LPDES permit expiration date: N/A

C. Date Application Received: June 3, 2008; additional information received on July 21, 2008, July 23, 2008, October 1, 2008, and October 2, 2008

2. FACILITY INFORMATION

A. FACILITY TYPE/ACTIVITY - manufacturer of fiberglass buildings

This facility makes fiberglass buildings (bunks) which are rented out to be used offshore. Fiberglass resin is sprayed on wooden buildings inside the shop. No wastewater is generated from this process. Sandblasting and painting are also done on site. When the buildings are returned, they are sandblasted and repainted as needed. The buildings are washed down in an area of the parking lot when they come back in or before being rented out to wash off dirt and dust.

B. FEE RATE

1. Fee Rating Facility Type: minor

2. Complexity Type: II*

3. Wastewater Type: II

4. SIC code: 2452, 1389

* The points for this facility have been BPJ'd to 0 based on the low volume of wastewater discharged and other similar light commercial facilities.

Statement of Basis for
 Advanced Marine Coatings, Inc.
 Advanced Fiberglass Products
 LA0123544, AI No. 156813
 Page 2

C. LOCATION - 1900 West Main Street, Schriever, Terrebonne Parish
 (Latitude 29° 43' 45", Longitude 90° 48' 8")

3. **OUTFALL INFORMATION**

Outfall 001

Discharge Type: treated sanitary wastewater from the office
 Treatment: 500 gpd mechanical treatment plant
 Location: at the point of discharge from the STP located near the office, prior to mixing with other waters
 Flow: 120 gpd
 Discharge Route: by pipe to LA Hwy 24 ditch; then to Bayou Terrebonne

Outfall 002

Discharge Type: treated sanitary wastewater from the fabrication shop
 Treatment: 1000 gpd mechanical treatment plant
 Location: at the point of discharge from the STP located near the fabrication shop, prior to mixing with other waters
 Flow: 120 gpd
 Discharge Route: by pipe to an onsite ditch then to an onsite retention pond; then to Dry Bayou

Outfall 003

Discharge Type: exterior equipment washwater
 Treatment: none
 Location: at the point of discharge from the washing activity, prior to mixing with other waters
 Flow: varies
 Discharge Route: by ditch to an onsite retention pond; then to Dry Bayou

Other Discharges – Stormwater runoff will be covered under the Stormwater Pollution Prevention Plan requirements.

4. **RECEIVING WATERS**

STREAM - Bayou Terrebonne

BASIN AND SEGMENT - Terrebonne Basin, Segment 120301

DESIGNATED USES - a. primary contact recreation
 b. secondary contact recreation
 c. propagation of fish and wildlife

Statement of Basis for
Advanced Marine Coatings, Inc.
Advanced Fiberglass Products
LA0123544, AI No. 156813
Page 3

5. TMDL STATUS

Subsegment 120301, Bayou Terrebonne – from Thibodeaux to ICWW in Houma, is not listed on LDEQ's Final 2006 303(d) list as impaired. However, subsegment 120301 was previously listed as impaired for organic enrichment/low DO, pathogen indicators (fecal coliform), nitrate/nitrite, and phosphorus for which the below TMDLs have been developed. Subsegment 120301 was also listed as impaired for non-native aquatic plants due to an unknown source. However, other control measures for non-native aquatic plants are expected to result in attainment of designated uses. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDLs and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDLs for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The following TMDLs have been established for subsegment 120301:

The Final Bayou Terrebonne Watershed TMDL for Biochemical Oxygen-Demanding Substances and Nutrients, Subsegment 120301, was finalized on April 15, 2008. Facilities discharging to canals or bayous that do not flow into Bayou Terrebonne were not included in the stream model or the TMDL. Outfall 001, treated sanitary wastewater, flows by pipe to an LA Hwy 24 ditch, then to Bayou Terrebonne. The estimated flow is 120 gallons per day (gpd).

Only one facility, the Schriever School, was considered to have a possible impact to Bayou Terrebonne due to its expected effluent discharge and the location of its outfall. Therefore, it was included in the model. No changes in permit limitations were recommended for the Schriever School. According to the TMDL report, "Twenty six facilities discharge to a ditch, pipe or storm drain leading to Bayou Terrebonne. However, they are too small or too far away to impact the targeted waterbody. These dischargers are accounted for as nonpoint source loading through the process of calibration. They fall within one of several state or regional policies that govern permit limitations." The estimated flow from Outfall 001 is 120 gpd and is not expected to have an impact on the receiving stream.

Organic enrichment/low DO

To protect against further dissolved oxygen impairment, a COD parameter has been included in the permit at Outfall 003 and a BOD₅ parameter has been included at Outfalls 001 and 002.

Statement of Basis for
Advanced Marine Coatings, Inc.
Advanced Fiberglass Products
LA0123544, AI No. 156813
Page 4

Nutrients (Nitrate/Nitrite, Phosphorus)

According to the TMDL report, "this TMDL establishes load limitations for oxygen-demanding substances and goals for reduction of those pollutants. LDEQ's position, as supported by the declaratory ruling issued by Secretary Givens in response to the lawsuit regarding water quality criteria for nutrients (*Sierra Club v. Givens*, 710 So.2d (La App. 1st Cir. 1997), writ denied, 705 So.2d 1106 (la. 1998), is that when oxygen-demanding substances are controlled and limited in order to ensure that the dissolved oxygen criterion is supported, nutrients are also controlled and limited. The implementation of this TMDL through wastewater discharge permits and implementation of best management practices to control and reduce runoff of soil and oxygen-demanding pollutants from nonpoint sources in the watershed will also control and reduce nutrient loading from those sources."

LAC 33:IX.2707.D.1.f.iii allows the establishment of effluent limitations based on an indicator parameter for the pollutant of concern. LDEQ's consistent approach to controlling nutrients in similar discharges where the WQMP does not otherwise require specific nutrient limitations is achieved by limiting the discharge of oxygen-demanding substances. Compliance with the BOD₅ and COD limitations as the indicator parameters will result in the control of nutrients from the discharge sufficient to attain and maintain the applicable water quality standard. Effluent monitoring of the indicator parameter as conducted by the permittee in accordance with the effluent limitations of the permit in addition to LDEQ's ambient water quality monitoring program will allow for further evaluation by the Department to determine the effectiveness of the limitation. The reopener clause located in Other Conditions of the final permit allows the Department to modify or revoke and reissue the permit if the limitations as set on the indicator parameter are shown to no longer attain and maintain applicable water quality standards.

TMDLs for Fecal Coliform Bacteria, Chlorides, Sulfates, TDS, Sediment, TSS, and Turbidity were finalized on April 19, 2007. Subsegment 120301 was listed as impaired for fecal coliform bacteria. According to the report, for fecal coliform bacteria, LDEQ's policy is to set wastewater permit limits no higher than water quality criteria (i.e., criteria are met at end-of-pipe). As long as point source discharges of treated wastewater contain parameter levels at or below these permit limits, they should not be a cause of exceedances of the fecal coliform bacteria water quality criteria.

6. PROPOSED EFFLUENT LIMITS

BASIS - See Rationale, Page 7

There are no changes as this is a first time permit.

7. COMPLIANCE HISTORY/COMMENTS

A. OEC – There are no open, appealed, or pending OEC enforcement actions as of

Statement of Basis for
Advanced Marine Coatings, Inc.
Advanced Fiberglass Products
LA0123544, AI No. 156813
Page 5

August 27, 2008. A warning letter (AE-L-08-0116) was issued to the facility on June 19, 2008 as a result of an inspection of the facility on March 17, 2008 – see Inspection, below. The facility was cited for not using adequate containment during sandblasting and painting operations.

- B. DMR Review/Excursions – N/A There are no previous permits.
- C. Inspection - An Air inspection performed at this facility on March 17, 2008 to investigate a sandblasting complaint revealed the following:
 - 1. Sandblasting is done in the rear of the building
 - 2. The facility stated that they have never used screens when sandblasting or painting.

8. ENDANGERED SPECIES

The receiving waterbody, Subsegment 120301 of the Terrebonne Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 24, 2007 from Boggs (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. Therefore, the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat.

9. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

10. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application.

11. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing

Statement of Basis for
Advanced Marine Coatings, Inc.
Advanced Fiberglass Products
LA0123544, AI No. 156813
Page 6

to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

Statement of Basis for
 Advanced Marine Coatings, Inc.
 Advanced Fiberglass Products
 LA0123544, AI No. 156813
 Page 7

Rationale for Advanced Marine Coatings, Inc.

1. **Outfall 001** - treated sanitary wastewater from the office (estimated flow is 120 gpd)
Outfall 002 - treated sanitary wastewater from the fabrication shop (estimated flow is 120 gpd)

Pollutant	Limitation		Reference
	Monthly Avg	Weekly Avg	
	mg/L		
Flow (gpd)	---	Report	LAC 33:IX.2707.1.1.b
BOD ₅	---	45	Similar discharges* (BPJ), LAG530000
TSS	---	45	Similar discharges* (BPJ), LAG530000
Fecal Coliform colonies/100ml	---	400 (Daily Max)	Similar discharges* (BPJ), LAG530000
pH, s.u.	6.0 (min)	9.0 (max)	Similar discharges* (BPJ), LAG530000

Treatment: mechanical treatment plant

Monitoring Frequency: Semiannually for all parameters at the point of discharge from the STP prior to mixing with other waters.

Limits Justification: Limits and monitoring frequencies are based on current guidance for similar discharges from other industrial facilities and the Class I Sanitary General Permit, LAG530000 effective November 1, 2007.

Statement of Basis for
 Advanced Marine Coatings, Inc.
 Advanced Fiberglass Products
 LA0123544, AI No. 156813
 Page 8

2. **Outfall 003** - exterior equipment washwater (flow is variable)

Pollutant	Limitation		Reference
	Monthly Avg	Daily Max	
	mg/L		
Flow (gpd)	Report	Report	LAC 33:IX.2707.I.1.b
COD	200	300	Similar discharges*, LAG480000 (BPJ)
TSS	---	45	Similar discharges*, LAG480000 (BPJ)
Oil & Grease	---	15	Similar discharges*, LAG480000 (BPJ)
Soaps & Detergents	Inventory Record	---	Similar discharges*, LAG480000 (BPJ)
Oil & Grease, Visual	---	No Presence	Similar discharges*, LAG480000 (BPJ)
pH, s.u.	6.0 (min)	9.0 (max)	Similar discharges*, LAG480000 (BPJ)

Treatment:

Monitoring Frequency: daily for visible sheen and quarterly for flow, TSS, COD, oil and grease, and pH at the point of discharge from the washing activity prior to mixing with other waters. Soaps and Detergents: document in a quarterly inventory record the quantity and type of any Soap and/or Detergent used during each calendar month.

Limits Justification: Limits and monitoring frequencies are based on current guidance for similar discharges from other facilities and the Light Commercial General Permit, LAG480000 effective August 1, 2001.

* Existing permits for similar outfalls

su Standard Units

NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.

Statement of Basis for
Advanced Marine Coatings, Inc.
Advanced Fiberglass Products
LA0123544, AI No. 156813
Page 9

STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENT

A SWP3 is included in the permit because in accordance with LAC 33:IX.2511.A.1, storm water discharges shall not be required to obtain an LPDES permit "... except... discharges associated with industrial activity." In accordance with LAC 33:IX.2511.B.14.a-k, facilities classified as SIC codes 2452 and 1389 are considered to have storm water discharges associated with industrial activity.

The SWP3 shall be prepared, implemented, and maintained within (6) months of the effective date of the final permit. The plan should identify potential sources of storm water pollution and ensure the implementation of practices to prevent and reduce pollutants in the storm water discharges associated with industrial activity at the facility (see Narrative Requirements for the AI).